

## PATENT COOPERATION TREATY

## PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY  
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference MH-024	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/JP2003/012966	International filing date (day/month/year) 09 October 2003 (09.10.2003)	Priority date (day/month/year)
International Patent Classification (IPC) or national classification and IPC B29C 47/82, 47/08, 47/10, 47/12 // B29K 105:04		
Applicant MISAWA HOMES CO., LTD.		

<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input type="checkbox"/> (<i>sent to the applicant and to the International Bureau</i>) a total of _____ sheets, as follows:</p> <p><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (<i>sent to the International Bureau only</i>) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p> <p>4. This report contains indications relating to the following items:</p> <p> <input checked="" type="checkbox"/> Box No. I Basis of the report  <input type="checkbox"/> Box No. II Priority  <input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  <input type="checkbox"/> Box No. IV Lack of unity of invention  <input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement  <input checked="" type="checkbox"/> Box No. VI Certain documents cited  <input type="checkbox"/> Box No. VII Certain defects in the international application  <input type="checkbox"/> Box No. VIII Certain observations on the international application     </p>
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Date of submission of the demand 24 June 2004 (24.06.2004)	Date of completion of this report 27 September 2004 (27.09.2004)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/012966

## Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

This report is based on translations from the original language into the following language \_\_\_\_\_, which is language of a translation furnished for the purpose of:

international search (under Rules 12.3 and 23.1(b))  
 publication of the international application (under Rule 12.4)  
 international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):

The international application as originally filed/furnished

the description:

pages \_\_\_\_\_, as originally filed/furnished

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

the claims:

pages \_\_\_\_\_, as originally filed/furnished

pages\* \_\_\_\_\_, as amended (together with any statement) under Article 19

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

the drawings:

pages \_\_\_\_\_, as originally filed/furnished

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3.  The amendments have resulted in the cancellation of:

the description, pages \_\_\_\_\_

the claims, Nos. \_\_\_\_\_

the drawings, sheets/figs \_\_\_\_\_

the sequence listing (specify): \_\_\_\_\_

any table(s) related to sequence listing (specify): \_\_\_\_\_

4.  This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

the description, pages \_\_\_\_\_

the claims, Nos. \_\_\_\_\_

the drawings, sheets/figs \_\_\_\_\_

the sequence listing (specify): \_\_\_\_\_

any table(s) related to sequence listing (specify): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.  
PCT/JP 03/12966

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	1 - 8	YES
	Claims		NO
Inventive step (IS)	Claims	1 - 8	YES
	Claims		NO
Industrial applicability (IA)	Claims	1 - 8	YES
	Claims		NO

## 2. Citations and explanations

Document 1: JP 2000-289045 A (Toyo Tire and Rubber Co., Ltd.), 17 October 2000

Document 2: JP 2002-144405 A (Araco Corp.), 21 May 2002

Document 3: JP 2002-029630 A (Kumamura Kogyo Kabushiki Kaisha), 29 January 2002

Document 4: JP 2002-036331 A (Kiyoshi MURAKAMI, Shiguma Kiki Kabushiki Kaisha, Kabushiki Kaisha Tokai Paudekkusu), 5 February 2002

Document 5: EP 279668 A2 (The Dow Chemical Company), 24 August 1988

Document 6: JP 2000-108153 A (Kabushiki Kaisha Bippu), 18 April 2000

## Claims 1-8

An extrusion molding machine provided with a tank connected to a supply route between the silo and the screw is not disclosed in any of the documents cited in the international search report. Moreover, it is not obvious to a person skilled in the art.

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

International application No.

PCT/JP2003/012966

**Box No. VI Certain documents cited****1. Certain published documents (Rule 70.10)**

Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
JP2003-300243 A	21 October 2003 (21.10.2003)	09 April 2002 (09.04.2002)	

[E, X]

**2. Non-written disclosures (Rule 70.9)**

Kind of non-written disclosure	Date of non-written disclosure (day/month/year)	Date of written disclosure referring to non-written disclosure (day/month/year)

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/12966

**A. CLASSIFICATION OF SUBJECT MATTER**  
Int.Cl<sup>7</sup> B29C47/82, B29C47/08, B29C47/10, B29C47/12//B29K105:04

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> B29C47/00-47/96

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
 Jitsuyo Shinan Koho 1926-1996 Toroku Jitsuyo Shinan Koho 1994-2004  
 Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E, X	JP 2003-300243 A (Misawa Homes Co., Ltd.), 21 October, 2003 (21.10.03), Full text (Family: none)	1-8
A	JP 2000-289045 A (Toyo Tire and Rubber Co., Ltd.), 17 October, 2000 (17.10.00), Claims; Par. Nos. [0018], [0023], [0026], [0049]; Fig. 1 (Family: none)	1, 2, 8
A	JP 2002-144405 A (Araco Corp.), 21 May, 2002 (21.05.02), Claims; Par. Nos. [0004], [0031]; all drawings (Family: none)	1

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family
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Date of the actual completion of the international search  
13 January, 2004 (13.01.04)

Date of mailing of the international search report  
03 February, 2004 (03.02.04)

Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

## INTERNATIONAL SEARCH REPORT

International application No. PCT/JP03/12966
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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2002-029630 A (Kumakura Kogyo Kabushiki Kaisha), 29 January, 2002 (29.01.02), Par. No. [0051] (Family: none)	3, 4
A	JP 2002-036331 A (Kiyoshi MURAKAMI, Shiguma Kiki Kabushiki Kaisha, Kabushiki Kaisha Tokai Paudekkusu), 05 February, 2002 (05.02.02), Par. No. [0012]; Fig. 1 (Family: none)	3, 4
A	EP 279668 A2 (THE DOW CHEMICAL CO.), 24 August, 1988 (24.08.88), Column 10, lines 32 to 41; Fig. 3 & US 4801484 A & JP 01-502252 A Page 7, lower left column, lines 4 to 11	5, 6
A	JP 2000-108153 A (Kabushiki Kaisha Bippu), 18 April, 2000 (18.04.00), Claims; Par. No. [0004]; Fig. 1 (Family: none)	2, 8